at1121exam_practice EXAMPLE! DO NOT HAND IN FOR CREDIT (v11)

- If you are looking for a practice exam that you can hand in for credit:

Question 1

Simplify the radical expressions.

$$\sqrt{27} \qquad\qquad \sqrt{8} \qquad\qquad \sqrt{20}$$

Question 2

Find all solutions to the equation below:

$$2\left((x+10)^2 - 3\right) \;=\; 44$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 + 10x \;=\; -16$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y \;=\; 4x^2 - 24x + 27$$

Express the function in **vertex form** and identify the **location** of the vertex.